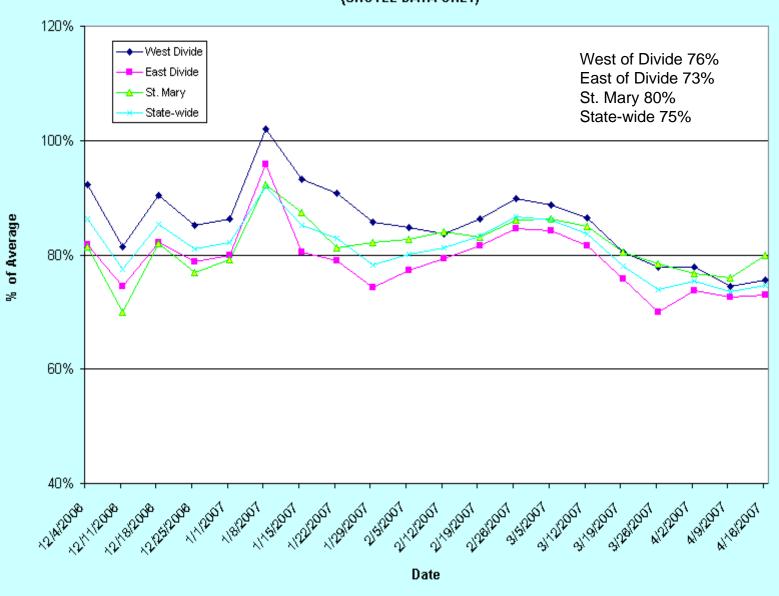


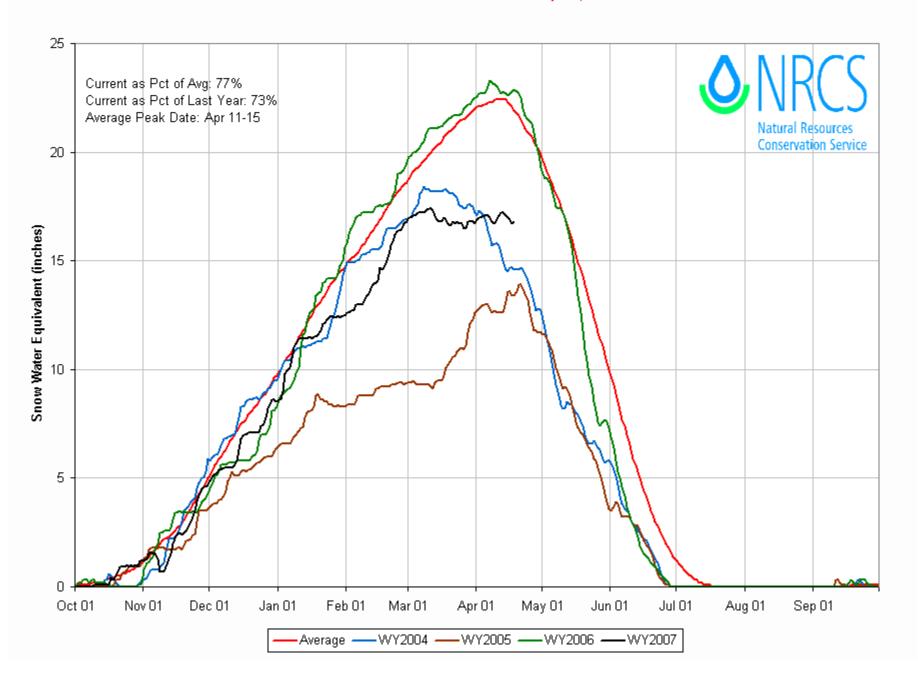
### 2007 SNOW WATER EQUIVALENT (SNOTEL DATA ONLY)



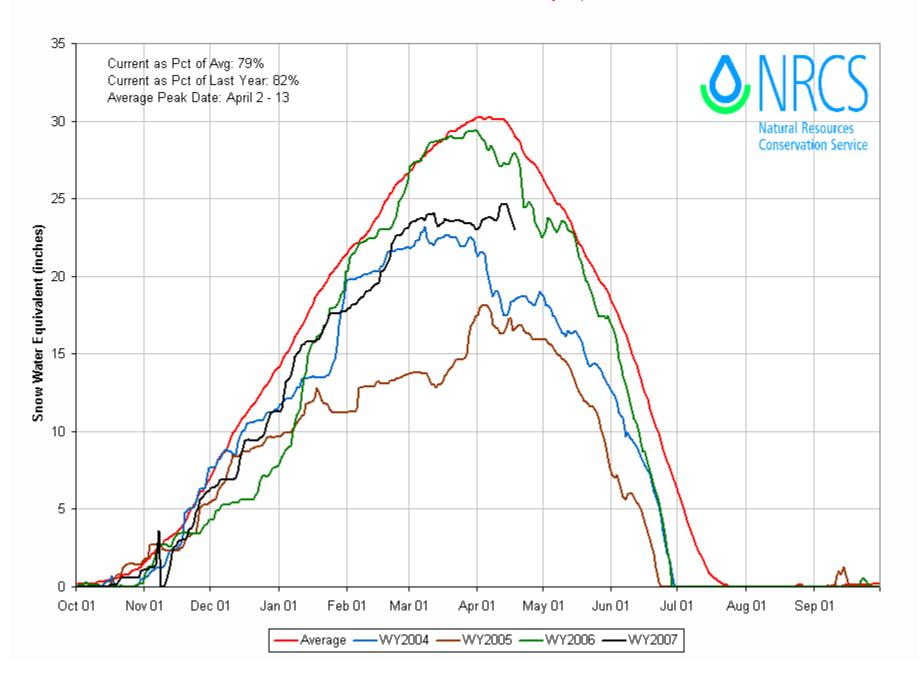
# SNOTEL DATA AS OF April 16, 2007

Basin	This Year % of ave.	This Week versus Last Week	Last Year % of ave.	This Year as % of Last Year	Current swe To Peak	Average swe To Peak
Kootenai	86%	<b>2</b> %	108%	80%	84%	99%
Flathead	<b>77</b> %	3%	101%	<b>76%</b>	74%	99%
Upper Clark Fork	<b>76%</b>	<b>2</b> %	101%	<b>75%</b>	<b>73%</b>	98%
Bitterroot	67%	-1%	111%	<b>60%</b>	<b>65%</b>	<b>100%</b>
Lower Clark Fork	<b>72</b> %	0%	100%	<b>72</b> %	71%	100%
Jefferson	68%	1%	108%	<b>63%</b>	66%	97%
Madison	68%	-1%	112%	61%	<b>70</b> %	98%
Gallatin	<b>73</b> %	<b>2</b> %	101%	<b>72</b> %	71%	96%
Missouri Headwaters	68%	0%	108%	63%	68%	97%
Headwaters Mainstem	81%	<b>2</b> %	109%	74%	<b>79%</b>	98%
Smith,Judith,Musselshell	<b>79%</b>	<b>2</b> %	106%	<b>75%</b>	<b>76%</b>	99%
Sun,Teton,Marias	<b>76%</b>	1%	93%	<b>82</b> %	<b>75%</b>	100%
Missouri Mainstem	<b>78%</b>	<b>2</b> %	100%	<b>78%</b>	<b>76%</b>	99%
St. Mary	80%	4%	94%	86%	73%	99%
Upper Yellowstone	<b>70%</b>	0%	91%	<b>77%</b>	67%	97%
Lower Yellowstone	<b>76%</b>	<b>-2%</b>	<b>69%</b>	110%	<b>73%</b>	96%
State-wide	<b>75%</b>	1%	101%	74%	73%	98%

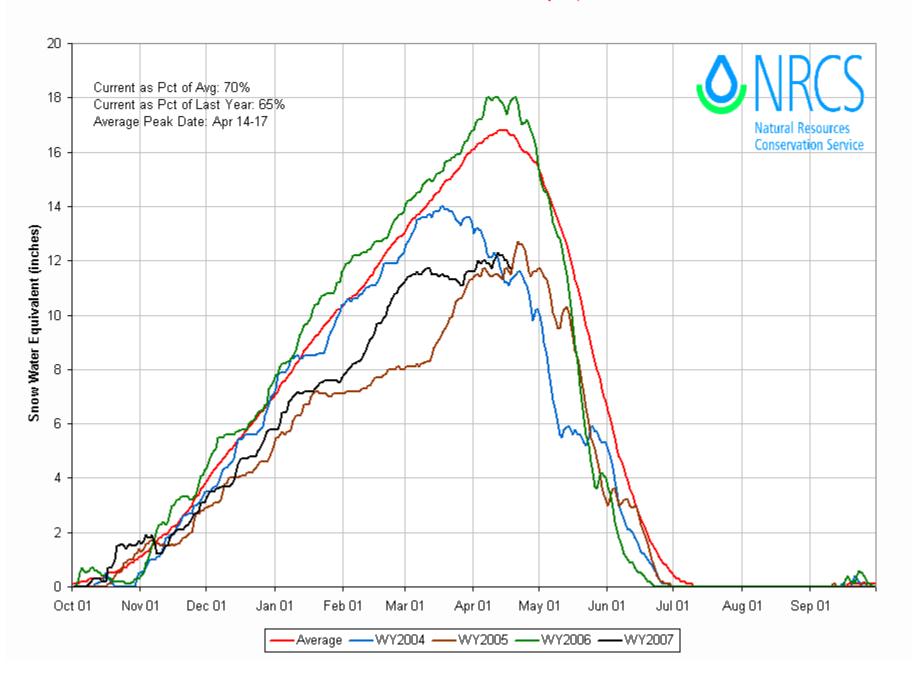
#### Columbia Basin Time Series Snowpack Summary



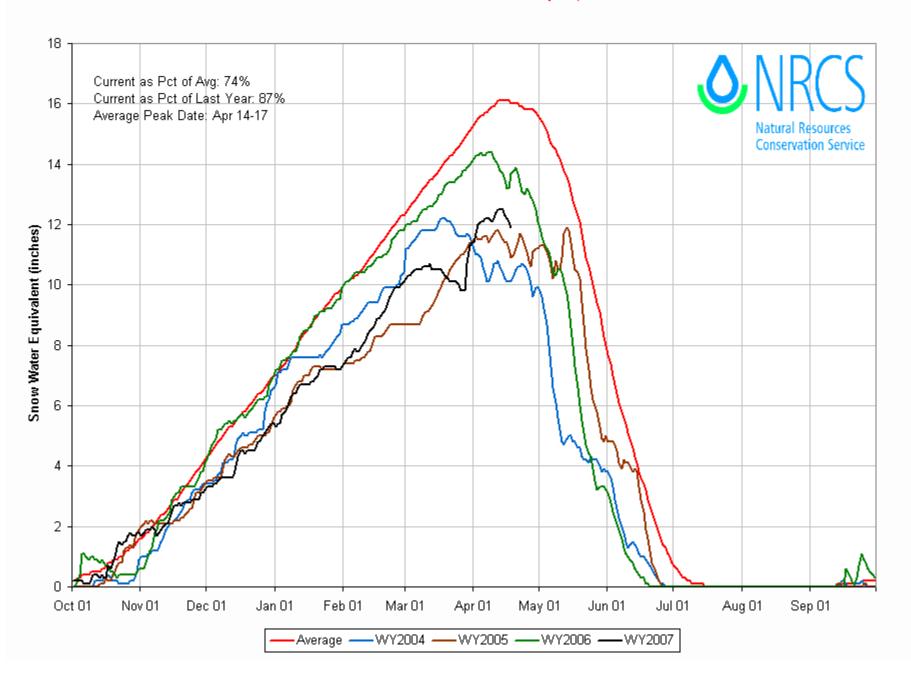
#### St. Mary Time Series Snowpack Summary



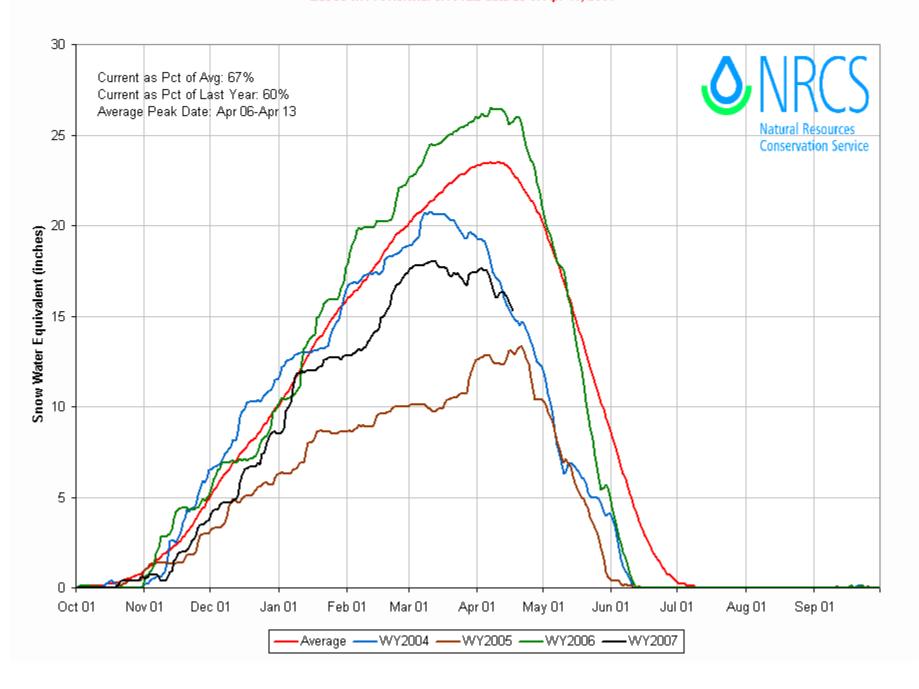
#### Missouri Basin Time Series Snowpack Summary



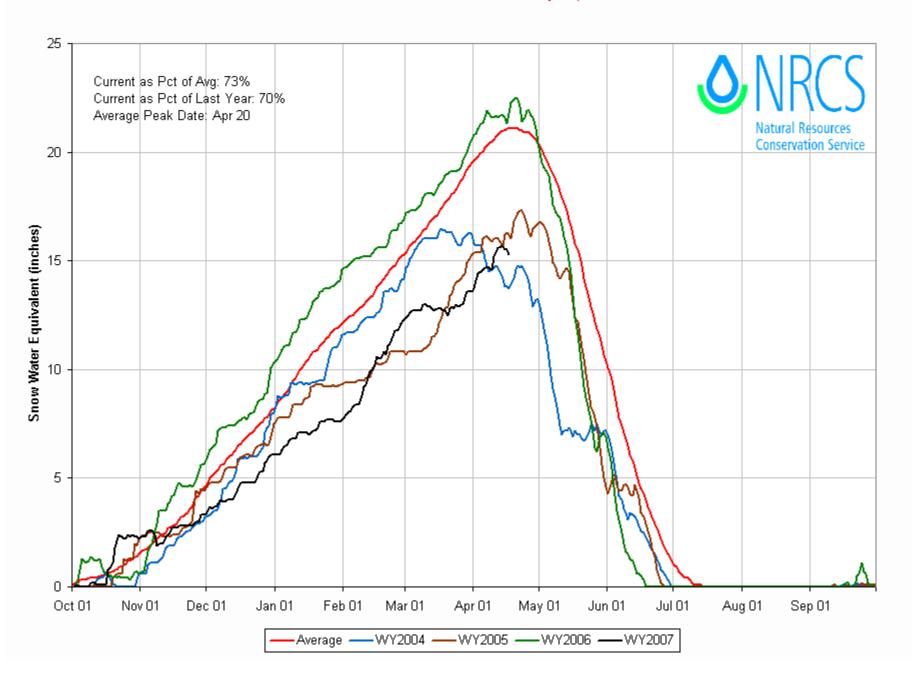
#### Yellowstone Basin Time Series Snowpack Summary



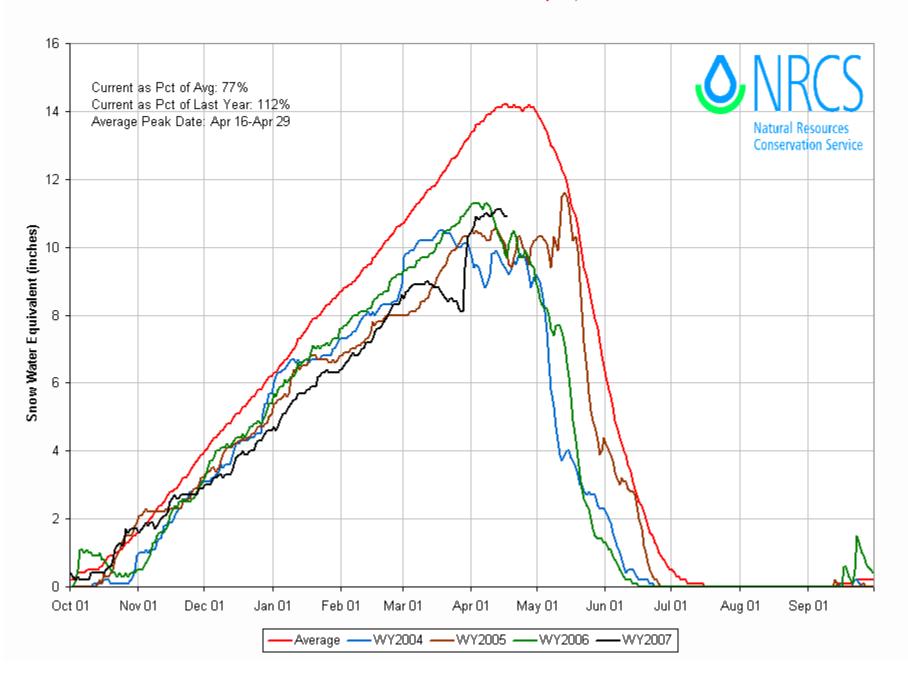
#### **Bitterroot Time Series Snowpack Summary**



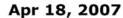
#### Gallatin Time Series Snowpack Summary

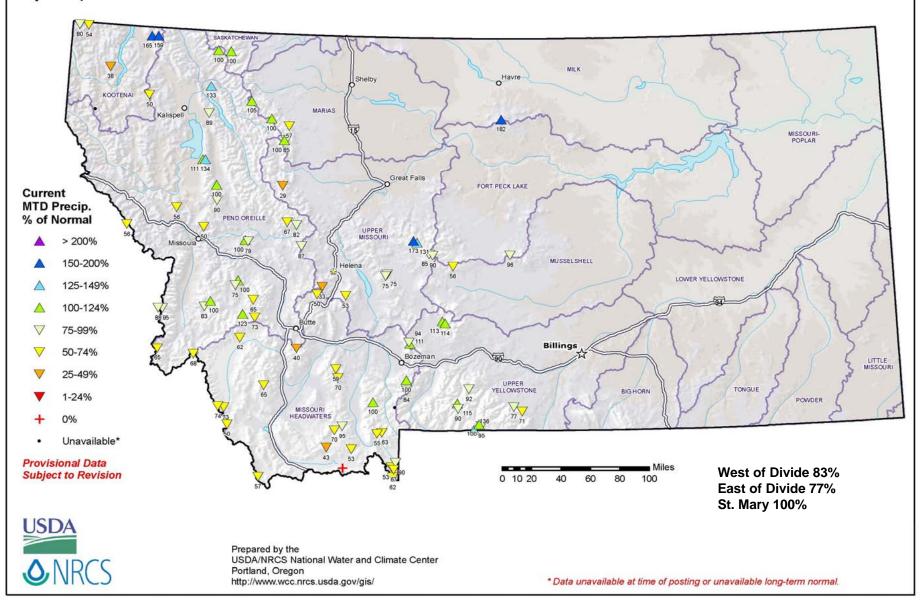


#### Lower Yellowstone Time Series Snowpack Summary



# Montana SNOTEL Month to Date (MTD) Precipitation % of Normal





## SUMMARY

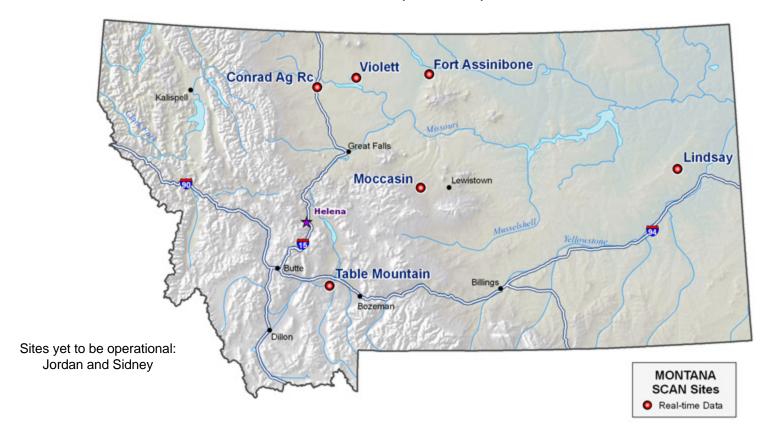
- Snowpack, using April 16 SNOTEL data, west of the divide was 76% of average and 73% of last year; east of the divide was 73% of average and 77% of last year; and St. Mary was 80% of average and 86% of last year.
- Current April mountain precipitation is generally near average to below average.
- Assuming near average rain April-July, spring and summer streamflows west of the divide are forecast to be below average and east of the divide are forecast to be below to well below average.



# MONTANA NRCS SNOW SURVEY AND WATER SUPPLY WEB PAGE

http://www.mt.nrcs.usda.gov/snow/

# MONTANA SOIL CLIMATE ANALYSIS NETWORK (SCAN)



Web address for site data: http://www.wcc.nrcs.usda.gov/scan/Montana/montana.html

For more information on the SCAN project contact: Chuck Gordon, State Soil Scientist Email address <a href="mailto:charles.gordon@mt.usda.gov">charles.gordon@mt.usda.gov</a> Phone 406.587.6818



### **VIOLETT Soil Moisture Data Report**

Date	Time	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	(Local Std.)	Moist	Temp	Moist	Temp	Moist	Temp	Moist	Temp	Moist	Temp
		(wvf in %)	(deg C)	(wvf in %)	(deg C)	(wvf in %)	(deg C)	(wvf in %)	(deg C)	(wvf in %)	(deg C)
		(2 inches)		(4 inches)		(8 inches)		(20 inches)		(40 inches)	
4/17/2007	0	27.5	11.7	34	11.9	38	11.1	26.5	8.2	30.4	6.8
4/17/2007	100	27.4	11.1	33.9	11.6	38	11	26.5	8.3	30.4	6.8
4/17/2007	200	27.1	10.4	33.9	11.3	38.2	10.8	26.5	8.3	30.4	6.8
4/17/2007	300	27.3	9.6	33.7	10.9	38	10.6	26.5	8.3	30.4	6.8
4/17/2007	400	27	8.8	33.7	10.5	38	10.5	26.2	8.3	30.4	6.8
4/17/2007	500	26.8	8.2	33.5	10.1	38	10.2	26.2	8.4	29.8	6.8
4/17/2007	600	26.6	7.9	33.6	9.7	38	10	26.5	8.4	29.8	6.8
4/17/2007	700	26.6	8.4	33.5	9.4	37.9	9.8	26.5	8.4	29.8	6.8
4/17/2007	800	27.1	9.4	33.3	9.3	37.8	9.6	26.4	8.4	29.8	6.9
4/17/2007	900	27.1	10.6	33.4	9.5	37.8	9.5	26.4	8.5	29.8	6.9
4/17/2007	1000	27.5	11.8	33.5	9.8	37.8	9.5	26.4	8.5	29.8	6.9

Climate sensors include: air temperature, solar radiation wind speed & direction, relative humidity, dew point temperature, and barometric pressure.

<sup>\*\*</sup>Provisional data, subject to revision\*\*
wvf = Water Volume Fraction

Temperature is in Degrees Centigrade

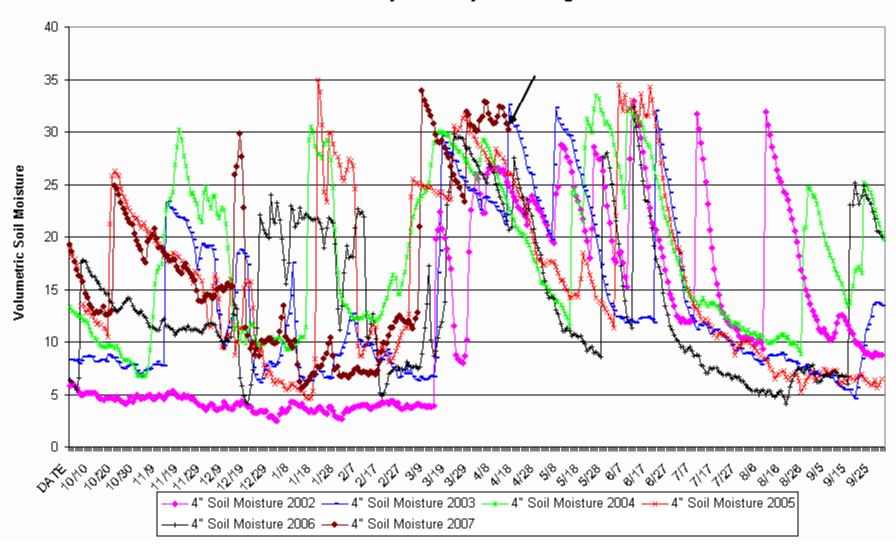
<sup>\*-99.9</sup> indicates invalid data received.

<sup>\*</sup>M = Missing data for the selected day.

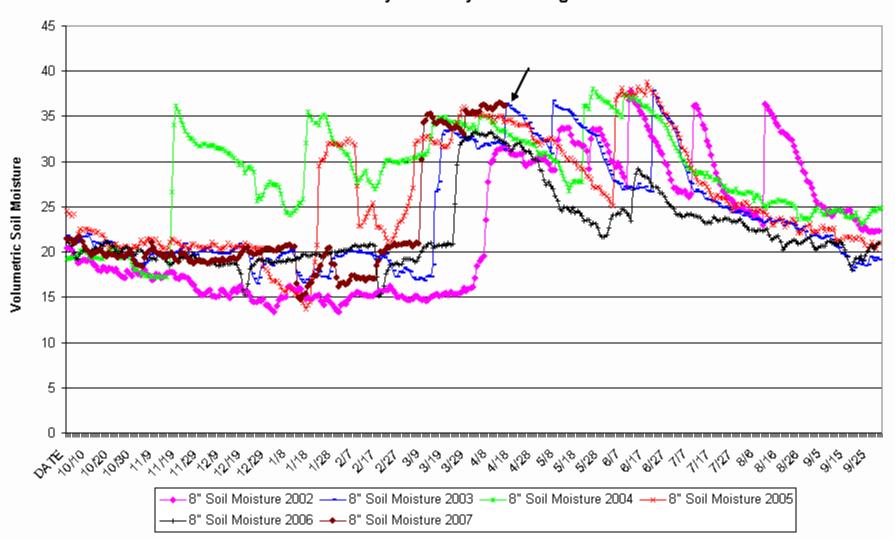
<sup>\*</sup>A blank field indicates a missing sensor or problems with the sensor.



Fort Assiniboine, MT 4" Soil Moisture, Water Year 2002, 2003, 2004, 2005, 2006, 2007 Preliminary Data Subject to Change



Fort Assiniboine, MT 8" Soil Moisture, Water Year 2002, 2003, 2004, 2005, 2006, 2007 Preliminary Data Subject to Change



Fort Assiniboine, MT 20" Soil Moisture, Water Year 2002, 2003, 2004, 2005, 2006, 2007 Preliminary Data Subject to Change

